

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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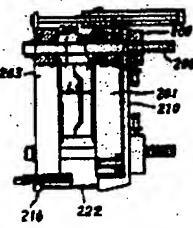
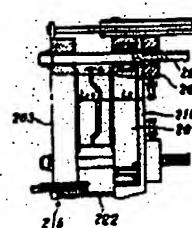
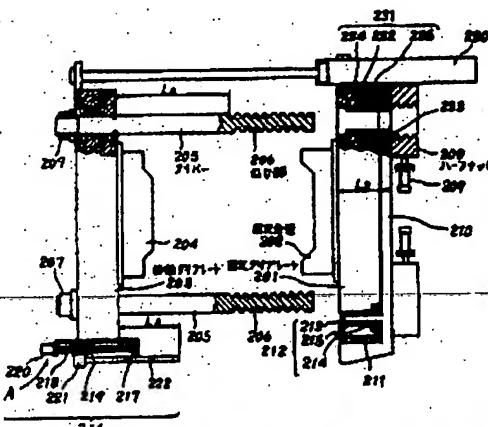
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**TITLE : MOLD THICKNESS REGULATOR**



**ABSTRACT :** PURPOSE: To engage a tie bar screw at an arbitrary position by forming the screw in length corresponding to the thickness of a metal mold to be applied with the screw, and movably regulating a half nut.

**CONSTITUTION:** When pressure oil is fed to the rod side of a mold opening/closing cylinder 230, a movable die plate 203 is advanced to a die plate 201 side, the mold is closed, the end of the rod 222 of a mold thickness regulator 216 pushes a mounting plate 210 at the end of the rod 222 from a state in contact with a half nut mounting plate 210, and the plate 210 is guided by linear guides 211, 212 to move horizontally. A distance  $\Delta$  of the moved plate 210 from the moment of the contact of the rod 222 with the plate 210 to the completion of the mold closing is automatically determined by the thickness  $L_1$  of a metal mold. The regulating distance  $\Delta$  is determined by the distance  $L_3$  from the metal mold mounting face of the plate 203 to the end of the rod 221, this position is set by transmitting a pulse signal responsive to the distance  $\Delta$  to a pulse motor 220, moving a screw 218, and moving the rod 222. Thus, it can be engaged at an arbitrary position only by correcting the slight displacement of the crests and valleys from the threads of the half nut. 205; tie bar 206; threaded part 208; half nut.

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